

# RoadPod<sup>®</sup> VM

## Real-time, permanent traffic counter

PATENTED

### Traffic data in real time

The RoadPod<sup>®</sup> VM is a discreet, off-grid vehicle counter that provides real-time data on traffic movements.

The tiny sensors use advanced magnetometer technology to accurately count vehicles, monitor speeds and classify vehicle type based on length. Gap and headway information is also available and all data is time-stamped to millisecond precision.

### Extreme data accuracy

A test conducted with the City of Fremantle in Western Australia showed the RoadPod<sup>®</sup> VM recorded 100% volume accuracy, 99.8% speed accuracy and 98.9% classification accuracy when compared with inductive loop and piezoelectric data at the same location for the same period.



*The RoadPod<sup>®</sup> VM gateway is solar charged & sits in a waterproof cabinet by the roadside, securely transmitting raw data to the Cloud.*

### Extremely fast installation

The RoadPod<sup>®</sup> VM was designed to be the simplest and fastest permanent traffic counter to install on sealed roads. Simply apply a specialised adhesive pad to the road surface, heat and place the sensor on top.

This ensures sensors are installed within a minute, with little to no traffic management required, nor any cutting or grinding of the road surface.

### 100% off grid. Solar powered.

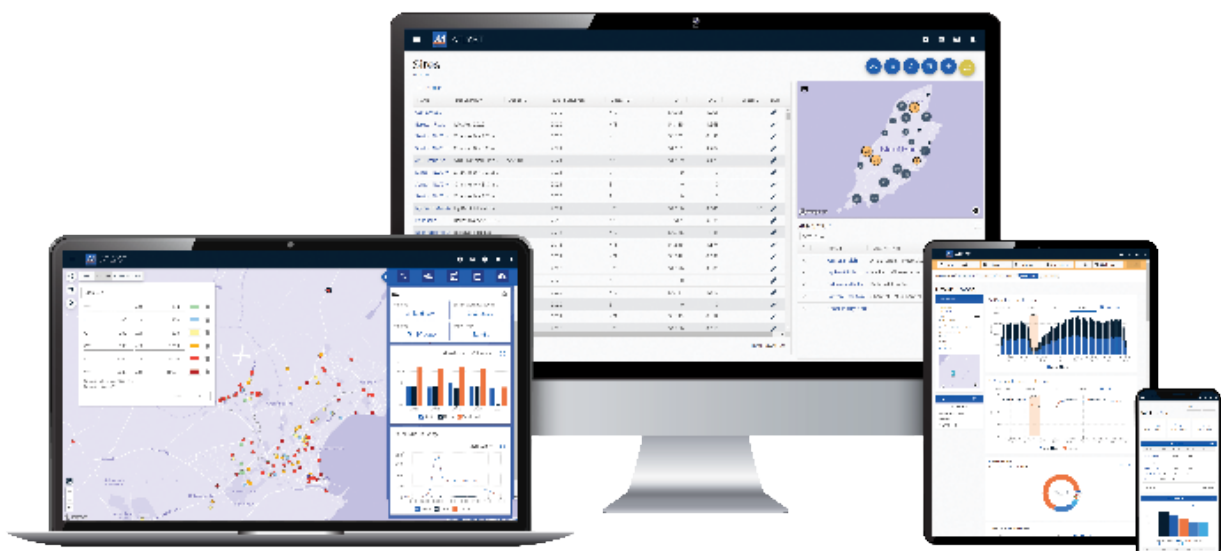
The entire RoadPod<sup>®</sup> VM system operates independently of mains power. Each sensor is powered by a small in-built solar panel and internal battery. Likewise, the roadside gateway is solar powered with a backup battery to run 24/7.

### Automated data validation and analysis

MetroCount's online data analytics software ATLYST<sup>®</sup> receives raw data from the RoadPod<sup>®</sup> VM in real time, validates it and displays traffic summaries on an interactive map and in graphical reports.

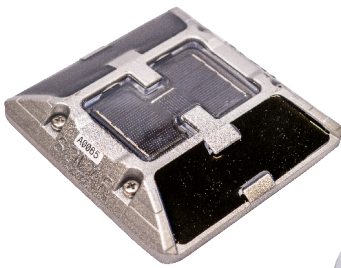
ATLYST<sup>®</sup> allows for easy hardware management from anywhere and makes running network-wide traffic surveys a breeze.

Choose to generate PDF reports, download GIS compatible CSV files or share with stakeholders using ATLYST's online dashboard.

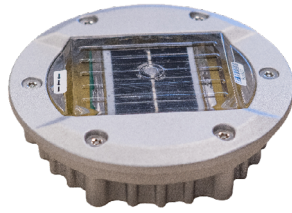


[www.metrocount.com](http://www.metrocount.com)

## RoadPod® VM & VM-I Hardware Specifications



Standard RoadPod® VM sensor



RoadPod® VM-I sensor for areas requiring snow clearing.



Installation is quick and easy. Taking the time to position sensors in a precise array ensures optimum data quality.

**Sensors:** Four, 3-Axis digital magnetometers (magneto-impedance) per lane

**Dimensions:** 110mm x 110mm x 20mm

**Optional sensors:** RoadPod® VM-I for roads requiring snow-clearing

**VM-I Dimensions:** 139mm diameter x 7mm high

**Memory:** Unlimited (with Cloud connectivity).  
250K vehicles (with no connectivity)

**Battery life:** Unlimited. (> 30 days with no solar / 25°C road surface temperature)

**Battery:** LifePO4

**Gateway:** Enclosed in waterproof cabinet with embedded solar panels

**Dimensions:** W400xD300xH1100

**Solar panels:** A-grade monocrystalline, high efficiency

**Operational:** From -30°C to 80°C degrees

**Software:** ATLYST® traffic survey management and data analysis software

We would not use any other product on high-volume roads again! Switching to the RoadPod® VM system saves us money, gives us more data all while reducing the risks to our staff being on the road.

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We were impressed with the timeliness of installation, taking a total of one hour on the carriageway, on a four-lane road.

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The 24/7 real-time data collected has proved extremely accurate. We compared the data with both video monitoring and a MetroCount tube counter.

Our clients are extremely happy with the user-friendly ATLYST® software to view, analyse and share information at the touch of a button. It is the perfect system!

**- ROADING LOGISTICS TRAFFIC CONSULTANCY, NEW ZEALAND.**



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